

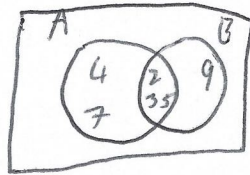


30th May

$A = \{2, 3, 4, 5, 7\}$

$B = \{2, 3, 5, 9\}$

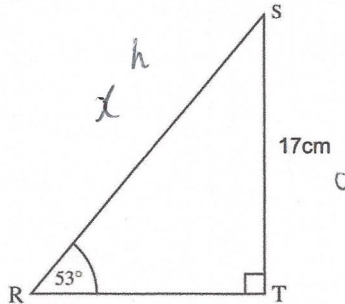
Find $P(A \cap B')$



$$\frac{2}{6} = \frac{1}{3}$$

Angle SRT is 53° , to the nearest degree.
ST is 17cm to the nearest centimetre.

Work out the upper bound for the length of RS.



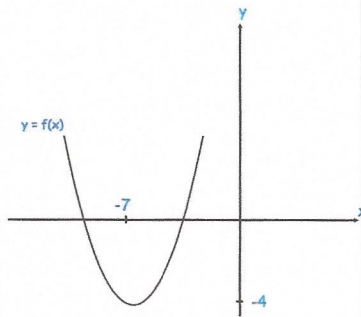
S.O.H
 $x = \frac{17.5}{\sin 52.5}$
 22.058cm

$y = f(x)$ has a minimum point at $(-7, -4)$.

The graph of $y = f(x) + a$ has a minimum point at $(-7, 0)$, where a is a constant.

Write down the value of a .

4



Make y the subject of

$$\frac{8}{x} = \frac{3}{y} + \frac{2}{5}$$

$$\frac{8}{2} = \frac{15 + 2y}{5y}$$

$$40y = 15x + 2xy$$

$$40y - 2xy = 15x$$

$$y(40 - 2x) = 15x$$

$$y = \frac{15x}{40 - 2x}$$

Sketch $x^2 + y^2 = 9$

$r = 3$

